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(54) Title: HYDROCARBON CRACKING CATALYST AND METHOD FOR PREPARING THE SAME



(57) Abstract: The present invention relates to a hydrocarbon cracking catalyst in which zeolite is fixed in the pores of metal oxide and a method for preparing the same. The method of the invention comprises the steps of a) vacuumizing a container including metal oxide; b) adding zeolite powder in water and stirring it to obtain a slurry solution; c) spraying the slurry solution of step (b) into the vacuous container to penetrate it into the pores of the metal oxide support; and d) drying the catalyst prepared, in step (c) and calcining it to fix zeolite powder in the metal oxide support. The hydrocarbon cracking catalyst of the present invention can improve production yield of such olefins as ethylene and propylene and such aromatic compounds as BTX, reduce pressure drop inside the reactor without forming the zeolite catalyst and has

superior rigidity.

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